

DNA REPORT WRITING-RELATIONSHIP TESTING

A. SCOPE

The laboratory report must communicate both the analytical results and the conclusions of the examiner, conveying the essence of the expert testimony in court. The notes and other documentation must support the conclusions of the examiner. Decisions may be made by police officers, attorneys and the courts based on the report alone without examiner clarification, so the report should be able to stand alone. The report must contain the information required in the Laboratory Quality Assurance Manual and the FBI DNA Quality Assurance Audit Document.

Typical casework reporting should follow the recommended reporting statements, as appropriate. It is recognized that not every situation can be represented by these statements and that it may be necessary to modify the statements to accurately reflect the results.

B. REPORTING STATEMENTS

B.1 AABB WORDING TO BE USED BELOW PARENTAGE TABLE INCLUDED IN REPORT

The statistics were calculated according to the 1998 National Research Council Report and the American Association of Blood Banks (AABB) - Parentage Testing Accreditation Requirements Manual (Third Edition). Based on the recommendations from the AABB, a neutral value of 50% is used as a prior probability when calculating the probability of parentage.

B.2 REPORTING TRIO

B.2.1 Scenario Example: Child, Mother, and Alleged Father

Reporting Statement: Based upon the comparison of the DNA profiles from the CHILD NAME, MOTHER NAME AND ALLEGED FATHER NAME REFERENCE SAMPLES, ALLEGED FATHER NAME cannot be excluded as the biological father of CHILD NAME. The probability of parentage for ALLEGED FATHER NAME is approximately 99.99% in the Caucasian, African American, Hispanic and Asian populations. The approximate combined parentage index is NUMBER in the Caucasian; NUMBER in the African American; NUMBER in the Hispanic; and NUMBER in the Asian populations.

Or

The statistical calculations for the approximate combined parentage index are as follows:

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APPROXIMATE COMBINED PARENTAGE INDEX			
Caucasian	African American	Hispanic	Asian
NUMBER	NUMBER	NUMBER	NUMBER

See the attached table # for individual parentage index values.

B.3 REPORTING REVERSE PARENTAGE

B.3.1 Scenario Example: Reverse parentage: Determination of whether a child is the biological child of tested parents or someone else is the biological child of the tested parents.

Reporting Statement: Based upon the comparison of the DNA profiles from the ALLEGED CHILD NAME, MOTHER NAME AND FATHER NAME REFERENCE SAMPLES, ALLEGED CHILD NAME cannot be excluded as being the biological child of MOTHER NAME and FATHER NAME. The probability of excluding a random individual from the population as being the biological child given the DNA profiles from PARENTS NAMES is approximately 99.99% in the Caucasian, African American, Hispanic and Asian populations. The approximate reversed parentage index (Table #) is NUMBER in the Caucasian; NUMBER in the African American; NUMBER in the Hispanic; and NUMBER in the Asian populations.

Or

The statistical calculations for the approximate combined reverse parentage index are as follows:

APPROXIMATE COMBINED REVERSED PARENTAGE INDEX			
Caucasian	African American	Hispanic	Asian
NUMBER	NUMBER	NUMBER	NUMBER

See the attached table # for individual parentage index values.

B.4 REPORTING SINGLE PARENTAGE

B.4.1 Scenario Example: Single parentage: Determination of whether the tested person is the biological mother/father or someone else is the biological mother/father.

Reporting Statement: Based upon the comparison of the DNA profiles from the CHILD NAME and MOTHER/FATHER NAME REFERENCE SAMPLES, NAME cannot be excluded as being the biological MOTHER/FATHER of CHILD's

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NAME. The probability of excluding a random individual from the population as being the biological MOTHER/FATHER given the DNA profile from CHILD's NAME is approximately 99.99% in the Caucasian, African American, Hispanic and Asian populations. The approximate combined single parentage index (Table #) is NUMBER in the Caucasian; NUMBER in the African American; NUMBER in the Hispanic; and NUMBER in the Asian populations.

Or

The statistical calculations for the approximate combined single parentage index are as follows:

APPROXIMATE COMBINED SINGLE PARENTAGE INDEX			
Caucasian	African American	Hispanic	Asian
NUMBER	NUMBER	NUMBER	NUMBER

See the attached table # for individual parentage index values.

B.5 REPORTING TRIO WITH A MUTATION

B.5.1 Scenario Example: Child, Mother, and Alleged Father with a single mutation

Reporting Statement: Based upon the comparison of the DNA profiles from the CHILD NAME, MOTHER NAME AND ALLEGED FATHER NAME REFERENCE SAMPLES, ALLEGED FATHER NAME cannot be excluded as the biological father of CHILD NAME, assuming there is a paternal mutation at LOCUS. The probability of parentage for ALLEGED FATHER NAME is approximately 99.99% in the Caucasian, African American, Hispanic and Asian populations. The approximate combined parentage index is NUMBER in the Caucasian; NUMBER in the African American; NUMBER in the Hispanic; and NUMBER in the Asian populations. See the attached table # for individual parentage index values.

Or

The statistical calculations for the approximate combined parentage index are as follows:

APPROXIMATE COMBINED PARENTAGE INDEX			
Caucasian	African American	Hispanic	Asian
NUMBER	NUMBER	NUMBER	NUMBER

See the attached table # for individual parentage index values.

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